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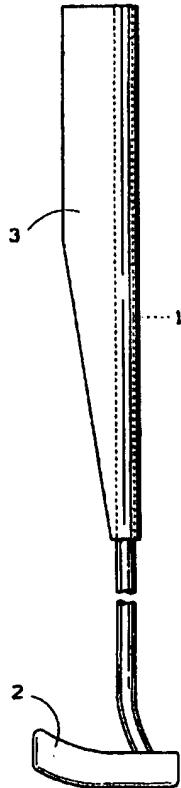
(51) International Patent Classification <sup>6</sup> : <b>A63B 53/14</b>	<b>A1</b>	(11) International Publication Number: <b>WO 97/49462</b> (43) International Publication Date: 31 December 1997 (31.12.97)
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(21) International Application Number: <b>PCT/SE97/01063</b> (22) International Filing Date: 17 June 1997 (17.06.97)  (30) Priority Data: 9602521-8 26 June 1996 (26.06.96) SE  (71)(72) Applicant and Inventor: KOHRTZ, Carl [SE/SE]; Västergatan 3 C, S-411 23 Göteborg (SE).  (74) Agents: GRAUDUMS, Valdis et al.; Albinh West AB, P.O. Box 142, S-401 22 Göteborg (SE).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  Published <i>With international search report. In English translation (filed in Swedish).</i>
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(54) Title: GOLF PUTTER COMPRISING A CLUB HEAD AND AN ELONGATED SHAFT CARRYING SAID CLUB HEAD

(57) Abstract

The invention relates to a golf putter which comprises a club head (2) and an elongated shaft of conventional kind carrying this head. The golf putter is characterized in that the shaft (1) at its upper part is provided with a downwardly extending grip (3) along a part of the shaft (1), which grip is attached to and surrounds the shaft, and is substantially rectangular in section, having the longer sides (4) of the section protruding forwards above the club head (2).



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5      **TITLE:**

Golf putter comprising a club head and an elongated shaft carrying said club head.

## TECHNICAL FIELD:

10     The present invention relates to a golf putter of a conventional kind having a club head and an elongated shaft carrying this club head on which shaft a specially formed grip according to the invention has been arranged.

15     **PRIOR ART:**

Golf clubs of different kinds and of different sizes are well known. They may be of different shape and size depending on how far the ball is to be struck and on the surface from which it shall be struck. A golfer therefore 20     brings with him a number of clubs on the course, each of which clubs is tailor-made for different types of strokes.

When the golf ball has arrived on the green and it is only a short distance from the hole into which it is intended to 25     fall, a club is used which is called putter and which has a certain shape so that the ball can be dispatched towards the hole with a light stroke.

To be able to bring about this final and difficult action 30     it is important for the golfer that he/she adopts the correct stance with regard to the ball to be able to swing the putter in as straight a pendulum movement towards the ball as is possible. Specific rules for golf clubs relating to dimensions, weight and shape exist, which the 35     manufacturers must take into account.

## TECHNICAL PROBLEM:

Most golfers have a tendency to make a pendulum movement with the putter which is not completely straight. This 40     results in that the ball will not obtain the desired

direction. The reasons for this may be many, i.a. that the golfer does not have his eyes straight above the ball and moves the putter obliquely backwards and/or obliquely forwards.

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**SOLUTION:**

In order to solve the above problem, a golf putter has therefore been brought about according to the invention, which golf putter comprises a club head and an elongated 10 shaft carrying this head and is characterized in that the shaft at its upper part is provided with a downwardly extending grip fastened to the shaft and surrounding it along a part of the shaft, which grip in section is substantially rectangular and which with the longer side of 15 the section extends forward above the club head.

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According to the invention, it is advantageous that the shaft is united with the grip at one of the shorter sides of the rectangular section.

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According to the invention, the grip is of even thickness but narrows somewhat downwardly and is somewhat thicker, for example 3 mm, than the thickness (diameter) of the round shaft at the end of the grip.

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According to the invention, it is suitable that the longer sides of the section are constant from the upper part of the grip down to approximately half of the length of the grip, whereafter they successively decrease to near zero.

According to the invention, it is suitable that the grip extends downwardly to approximately three quarters of the length of the shaft or approximately 60 cm.

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The grip according to the invention is suitably made of a grip-friendly material, such as rubber.

## DESCRIPTION OF THE FIGURES:

The invention will now be described more in detail with reference to the attached drawings, where:

**DETAILED DESCRIPTION:**

In Fig. 1 a club shaft 1 is shown which carries a club head 2, in this case a putter for short putts. The putter head 2 and the shaft 1 are of conventional kind, which means that the shaft 1 is pipe- or rod-formed having a circular cross section. At the upper part of the shaft 1 the hand grip 3 is mounted and it is shown from the side here. The hand grip 3 is so arranged on the shaft 1 that it protrudes forwards and above the putter head 2. The hand grip 3 has, as can be seen in the figure, an even width forward along approximately half of its entire length and narrows thereafter downwardly. The width of the hand grip 3, as shown in Fig. 1, may vary but it is maximally 45 mm at its upper straight part. The length of the hand grip may also vary but it is suitably up to approximately three-quarters of the length of the shaft or approximately 60 cm. The hand grip is of even thickness and has no indentations.

35 Fig. 2 shows the hand grip in a front view and it accordingly describes the thickness of the grip. As appears from the figure, the hand grip is of even thickness and it

has suitably a thickness which is a few millimetres greater than the diameter of the shaft 1. A suitable thickness may be the diameter + 3 mm.

5 Fig. 3 shows a section through the shaft 1, having a mounted grip 3. As appears from this figure, the section is approximately rectangular having two longer sides 4 and two shorter sides 5, one of which is rounded off to become grip-friendly. At the rounded-off short side the shaft 1 is mounted. It is important that the shaft 1 is located at a shorter side and accordingly not further into the rectangle. This would decrease the value of the invention somewhat since the hand grip 3 then would not protrude sufficiently in front of and above the putter head 2.

10 15 The grip 3 is fastened to the shaft 1 by means of the shaft having been inserted into a hole made in the grip 3. To ensure that the grip 3 will not turn, it is anchored by means of an adhesive.

20 25 When the putter grip is shaped according to the present invention a better support for the hands will be created, which means that the pendulum movement of the putter will be straighter and the ball will roll to the place at which the player aims. The eyes will be more directly above the ball, which also facilitates the putting.

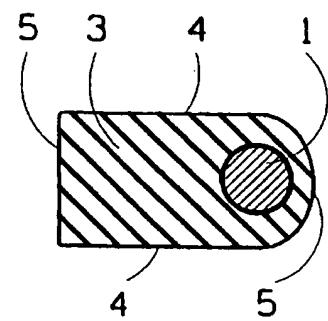
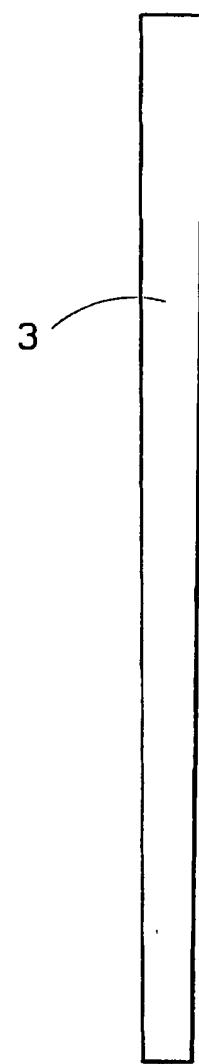
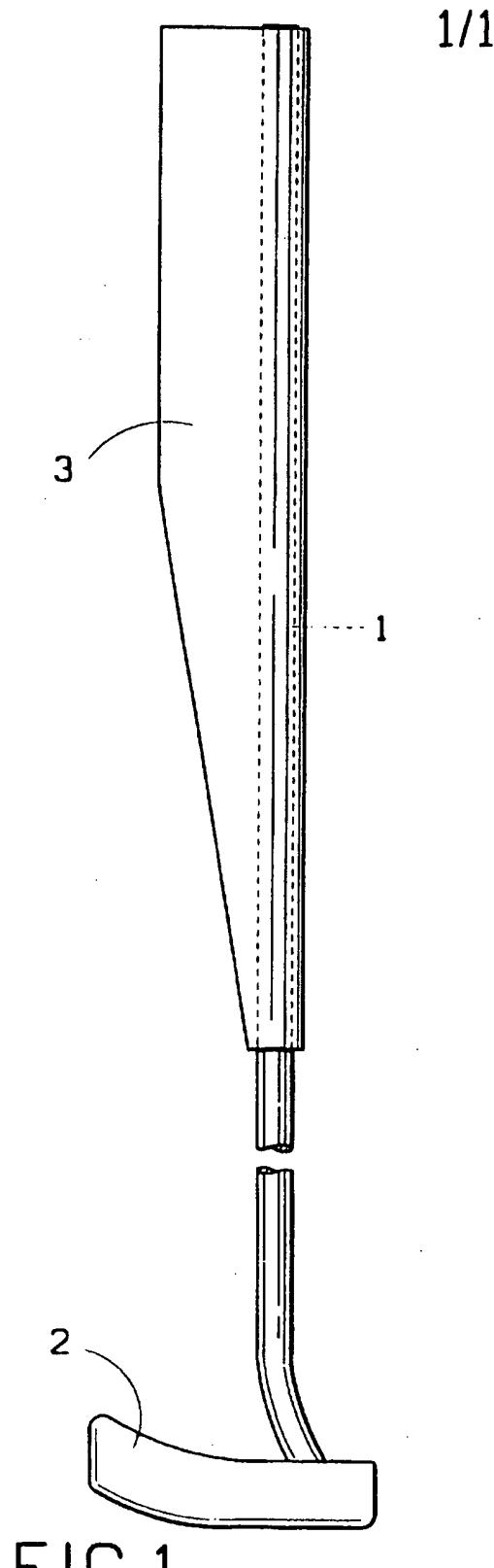
30 35 The putter grip according to the present invention also gives the golfer the possibility to hold further down on the shaft than is the case with conventional putter grips. This is especially good for those who have the inverted putter grip, i.e. those who have the left hand furthest down. Moreover, a better feeling for the putting is obtained when the hands are closer to the ball, which is especially good for short putts.

The invention is not limited to the embodiment shown but can be varied in different ways within the scope of the claims.

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## CLAIMS

1. Golf putter comprising a club head (2) and an elongated shaft (1) carrying this head,  
10 characterized in that the shaft (1) at its upper part is provided with a downwardly extending grip (3) along a part of the shaft and attached to and surrounding this shaft, which grip is substantially rectangular in section and the longer side (4) of the section protrudes  
15 forwards over the club head (2) and the shaft (1) is united with the grip (3) at one of the shorter sides (5) of the rectangular section.
2. Golf putter according to claim 1,  
20 characterized in that the grip (3) is of even thickness, but narrows somewhat downwardly and is somewhat thicker, for example 3 mm, than the thickness (diameter) of the shaft (1) at the end of the grip.
- 25 3. Golf putter according to any of claims 1-2,  
characterized in that the longer sides (4) of the section are constant from the upper part of the grip (3) down to approximately the half of the length of the grip (3) whereupon they successively decrease to near zero.  
30
- 35 4. Golf putter according to any of claims 1-3,  
characterized in that the grip (3) extends downwardly to approximately three-quarters of the length of the shaft or approximately 60 cm.
5. Golf putter according to any of claims 1-4,  
characterized in that the grip (3) is made of grip-friendly material such as rubber.



## INTERNATIONAL SEARCH REPORT

1

International application No.  
PCT/SE 97/01063

## A. CLASSIFICATION OF SUBJECT MATTER

IPC6: A63B 53/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: A63B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2124089 A (YOSHIRO NAKAMATSU), 15 February 1984 (15.02.84) --	1-5
A	US 3077349 A (D.J. LEONARD), 12 February 1963 (12.02.63) --	1-5
A	US 4067573 A (J.B. KEY, JR.), 10 January 1978 (10.01.78) -----	1-5

 Further documents are listed in the continuation of Box C. See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
2 Sept 1997	04-09-1997
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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

06/08/97

International application No.

PCT/SE 97/01063

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